

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION**

MONITORING AND REPORTING PROGRAM NO. R3-2008-0027

CONCERNING

MISSION LINEN SUPPLY/AMBASSADOR LAUNDRY

**201 EAST HALEY STREET, SANTA BARBARA
SANTA BARBARA COUNTY**

GROUNDWATER MONITORING

This Monitoring and Reporting Program (MRP) is issued pursuant to California Water Code section 13267. It supersedes and replaces the previous MRP No. 98-063 and MRP No. R3-2006-0065 for groundwater monitoring and reporting.

A qualified person, trained in proper procedures for collecting samples to be analyzed for volatile organic compounds (VOCs) shall collect representative samples of groundwater from monitoring wells. Mission shall submit in writing for Central Coast Water Board staff review, any changes in monitoring frequency and analytes, and receive Executive Officer approval prior to implementing these changes.

Mission shall incorporate all new monitoring wells immediately into the sampling schedule following well completion and development activities and then place the new monitoring wells on an appropriate monitoring schedule, as approved by the Executive Officer. The location and reference point elevation for each monitoring well shall be surveyed using conventional survey method or global positioning satellite survey.

Sampling Frequency

Mission shall collect groundwater samples from selected groundwater monitoring wells in accordance with the following schedule described in the table below. Mission shall analyze each sample as specified in the ***Analytical Testing*** section of this monitoring program.

Well Name	Water-Bearing Zone	Sampling Frequency
06-01, 17-02, 18-02, 39-01 ^a , 41-01, 43-01, 44-01, 53-01, 61-01, 63-01	Shallow Water-Bearing Zone 1 (SZ1)	Semiannual
21-02, 07-03, 29-02, 38-01, 54-01, 55-01 ^a , 62-01 ^a , 74-01 ^b		Quarterly

Well Name	Water Bearing Zone	Sampling Frequency
05-01, 07-02, 12-01, 13-01, 16-01, 17-01, 18-01, 20-01, 36-02, 39-01 ^a , 42-02, 71-01, 72-01, 73-01	Shallow Water-Bearing Zone 2 (SZ2)	Semiannual
21-01, 29-01, 55-01 ^a , 62-01 ^a , 74-02 ^b		Quarterly
07-01, 16-03, 17-03, 18-03, 19-03, 23-02, 36-03, 41-02, 42-03, 56-01	Shallow Water-Bearing Zone 3 (SZ3)	Semiannual
21-03, 29-03		Quarterly
06-03, 15-03, 17-04, 18-05 (replacement well for 18-04)	Shallow Water-Bearing Zone 4 (SZ4)	Semiannual
52-03	Shallow Water-Bearing Zone 5 (SZ5)	Quarterly
11-01, 22A2, 47-01, VCP-2	Upper Producing Zone (UPZ)	Semiannual ^c

Notes:

^a These wells represent both SZ1 and SZ2 water-bearing zones.

^b These wells will be newly installed to monitor the success of the activated carbon and ZVI remediation technology at 235 East Haley Street.

^c UPZ wells shall be sampled and analyzed monthly when the City of Santa Barbara's City Hall and/or Corporation Yard production wells are in regular use.

Sampling Protocol

Mission will perform a depth-to-groundwater survey (to 0.01 feet accuracy) of all wells included in the monitoring program as described above prior to each semiannual groundwater-sampling event. Depth-to-groundwater shall also be measured monthly in the UPZ monitoring wells. Additionally, in wells to be sampled using purge and sample techniques, Mission shall measure depth-to-groundwater (to 0.01 feet accuracy) in each monitoring well before purging. In wells to be sampled using purge and sample methods, each well shall be properly purged prior to sampling until measurements of the following parameters have stabilized: temperature, pH, specific conductance or other appropriate parameters. In these wells, Mission shall collect groundwater samples from each well after the groundwater level in the well has recovered sufficiently to ensure the collection of representative groundwater samples. Mission shall collect all samples within 12 hours of purging activities. In wells sampled using passive diffusion bags (PDBs), Mission shall not purge the well. Mission will stage PDBs within the screened interval of each well a minimum of two weeks prior to sample collection. For sampling, Mission will remove PDBs from the well and Mission will collect the sample directly from the PDB.

Analytical Testing

At a minimum, laboratory results shall report tetrachloroethene (PCE), trichloroethene, cis 1,2-dichloroethene, trans 1,2-dichloroethene, 1,1-dichloroethene, and vinyl chloride concentrations using USEPA Method 8260B. The detection limit for individual VOCs in undiluted samples shall not exceed 0.5 micrograms per liter ($\mu\text{g/L}$). Additionally, Mission will analyze groundwater samples collected from monitoring wells 21-01, 21-02, 74-01, and 74-02 for ferrous and total iron using USEPA Method 200.7 or 6010B. Mission may use alternative methods, following the Executive Officer's approval, if they produce data whose detection limits, precision and accuracy are equal to or better than data produced by the referenced methods for identical sample matrices.

A laboratory certified for such analyses by the California Department of Public Health shall conduct the sample analyses or at laboratories approved by the Executive Officer. Unless otherwise noted, all sampling, sample preservation, and analyses shall be performed in accordance with the latest edition of *Test Methods for Evaluating Solid Waste*, USEPA SW-846, and analyzed as specified herein by the above analytical methods and detection limits indicated.

REPORTING

Mission shall submit monitoring reports semiannually by the following due dates and shall include the following information:

REPORT	SAMPLING PERIOD	DUE DATE
1 st Semiannual	October through March	April 20
2 nd Semiannual	April through September	October 20

1. Results of field and laboratory sampling required by this program in tabular form. Tables presenting analytical data shall indicate the analytical method used.
2. A table with well completion information, including top of well casing elevation, total depth and screen interval with respect to both mean sea level and ground surface for all monitoring wells.
3. Scaled maps showing the site and the locations of all monitoring wells.
4. Maps showing calculated potentiometric elevations at each monitoring well and interpreted potentiometric surfaces for Shallow Zones 1 through 4 and the Upper Producing Zone.
5. All previous data in tabular form to allow comparison of historic data. These data may be provided in portable document format on a compact disk included with the paper copy of the report.
6. An evaluation and interpretation of all available data, including PCE concentration versus time graphs for selected monitoring wells.

7. An evaluation of the cleanup effort, and recommendations for further work (i.e. identification of possible data gaps, interim corrective actions) as necessary to complete site assessment and cleanup of the site.
8. Maps showing PCE concentrations for Shallow Zones 1 through 4 and an interpretation of the contaminant distribution in each of these zones.
9. The signature and stamp of a registered professional with applicable experience attesting, under penalty of perjury, that the report is true and accurate
10. Narrative description of sample collection protocols and summary of analytical results for any and all detected compounds; and
11. Certified laboratory analytical reports and chain of custody records for current monitoring data. Mission may provide these data in portable document format on a compact disk included with the paper copy of the report.

If any monitoring or sampling is conducted more frequently than is required by this Monitoring and Reporting Program, the results of such monitoring shall be included in the semiannual monitoring reports.

In accordance with Title 23, Division 3, Chapter 30, Articles 1 and 2, Sections 3890 through 3895 of the California Code of Regulations, Mission shall submit monitoring reports and associated data in Portable Data Format and Electronic Deliverable Format to the State Water Board GeoTracker database over the internet. Please refer to the State Water Board web page Policy Statement-Electronic Reporting Requirements:

http://www.swrcb.ca.gov/cwphome/ust/cleanup/electronic_reporting/index.html

These reports are required pursuant to Section 13267 of the California Water Code. Pursuant to Section 13268 of the Water Code, a violation of a request made pursuant to Section 13267 may subject you to an assessment of administrative civil liability of up to \$1,000 per day of violation.

The Executive Officer may rescind or revise this MRP.

	Ordered By:	
Date		Roger W. Briggs Executive Officer